

COLORADO RIVER RECOVERY PROGRAM
FY-2004–2005 PROPOSED SCOPE OF WORK for:
(GVIC screen and passage O&M)

Project No.: C-29

Note: Annual reports only.

Lead Agency: Bureau of Reclamation
Submitted by: Brent Uilenberg
Bureau of Reclamation
2764 Compass Dr., Suite 106
Grand Junction CO 81506
Phone: (970) 248-0641
Fax: (970) 248-0601
E-mail: builenberg@uc.usbr.gov

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Category:

- ☒ Ongoing project
- ☐ Ongoing-revised project
- ☐ Requested new project
- ☐ Unsolicited proposal

Expected Funding Source:

- ☐ Annual or ☒ O&M funds
- ☒ Capital funds
- ☐ Other (explain)

I. Title of Proposal:

Grand Valley Irrigation Company fish screen and fish passage operation and maintenance

II. Relationship to RIPRAP:

Colorado River Action Plan: Mainstem
II.B.1. Restore passage at Grand Valley irrigation Company diversion dam
II.B.1.a.(4) Operate and maintain
II.B.1.b Screen GVIC diversion to prevent endangered fish entrainment
II.B.1.b.(3) Operate and maintain

III. Study Background/Rationale and Hypotheses:

Correct flow distribution problems on the existing fish screen. Unusual eddies caused by the canal head gates and the configuration with the diversion dam create uneven flow distribution along the face of the fish screen. This project will correct this problem by construction of a deflector wall in the canal to even canal flows.

IV. Study Goals, Objectives, End Product:

Goal: Correct flow problems on the Grand Valley Irrigation Company Fish Screen

Objectives:

1. Prepare designs, specifications, and cost estimates leading to construction contract award.
2. Provide construction management services resulting in construction of the fish screen modifications.

V. Study area: The dam is located on the Colorado River near Palisade, Colorado, approximately 3 miles downstream of the abandoned Price-Stubb Diversion Dam and 8 miles downstream of the Grand Valley Project Diversion Dam. The fish screen is located in the Grand Valley Irrigation Company canal approximately 2,000 feet below the diversion dam.

VI. Study Methods/Approach

The proposed wall was modeled in Reclamation's hydraulic lab. Indications are good that the wall will correct the flow distribution problems.

VII. Task Description and Schedule

1. Formulate range of alternatives (Complete)
2. Prepare final designs, specifications, O&M contract, cost estimates and award construction contract (Considered complete if construction is performed under force account arrangement with GVIC. However, if GVIC decides not to perform this work, additional costs will be incurred to develop specifications to solicit bids from third party construction contractors).
3. Construct deflector wall (Fall 2003)
4. Operate and maintain fish screen (Ongoing)

VIII. FY- 2004 Work

Task 2 - Design deflector wall.

Deliverable	Design and specifications	
Budget		
	Labor (4 wks @ \$2,500/wk)	10,000
	Travel	0
	IT Equipment Assessment	200
	Other	0
	Total	<u>10,200</u>

Task 3 - Construct deflector wall.

Deliverable		
Budget		
	Labor (13 wks @ \$1,900/wk)	24,700
	Travel	0
	IT Equipment Assessment	500
	Other - Construction Contract	<u>400,000</u>
	Total	<u>425,200</u>

Note: Estimated construction completion by May 2004.

Task 4 - Operate and maintain the fish screen and passage

Deliverable		
Budget		
	USBR labor (6 wks @ \$1,875/wk)	11,250
	Travel	0
	IT Equipment Assessment	200
	Other (GVIC labor 62 weeks @ \$1,200/wk)	<u>74,400</u>
	Total	<u>85,850</u>

FY- 2005 Work

Task 4 - Operate and maintain the fish screen and passage

Deliverable		
Budget		
	USBR labor (6 wks @ \$1,875/wk)	11,250
	Travel	
	IT Equipment Assessment	200
	Other (GVIC labor 62 wks @ \$1,200 wk)	<u>74,400</u>
	Total	<u>85,850</u>

Out Year Funding Needs - No capital funding needs are identified beyond FY 2004.
Annual O&M costs are estimated to be \$85,850.

IX. Budget Summary

	2004	2005
Construction	435,400	
O&M	85,850	85,850

X. Reviewers

Bob Norman
Bureau of Reclamation
2764 Compass Dr., Suite 106
Grand Junction CO 81506
Phone: (970) 248-0634
Fax: (970) 248-0601
E-mail: rnorman@uc.usbr.gov

XI. References